

**AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior listings and versions:

1. (withdrawn): A method of selecting a switching system, the switching system comprising (i) a first component comprising a first polypeptide and (ii) a second component comprising a second polypeptide, in which the first polypeptide binds to the second polypeptide in a manner modulatable by a ligand, and (iii) a third component comprising the ligand, wherein the first and second polypeptides bind to DNA, wherein the first or second polypeptide comprises a Cys2-His2 zinc finger protein, the method comprising the steps of:

- (a) contacting one or more candidate first polypeptides with one or more candidate second polypeptides in the presence of one or more ligands,
  - (b) selecting a complex of the three components;
  - (c) optionally isolating and/or identifying the unknown components of the complex;
  - (d) comparing the binding of the first polypeptide component of the complex to the second polypeptide component of the complex in the presence and absence of the ligand component of the complex; and
  - (e) selecting complexes where said binding differs in the presence and absence of the ligand component,
- in which at least one component is provided in the form of a library of members.

2. (withdrawn): A method according to Claim 1, in which at least one of the candidate first polypeptides comprises a non-naturally occurring binding domain which binds to the second polypeptide.

3. (canceled)

4. (withdrawn): A method according to Claim 1, in which one or both of the first and second polypeptides is provided as a plurality of molecules.

5. (withdrawn): A method according to Claim 4, in which the plurality of molecules is a library.

6. (canceled).

7. (withdrawn): A method according to Claim 4, in which one of the components isolated and/or identified in step (c) is a ligand component.

8. (withdrawn): A method according to claim 4, in which one of the components isolated in step (c) is a polypeptide that binds to DNA.

9. (canceled).

10. (withdrawn): A method according to claim 4, in which a plurality of candidate ligands are used.

11. (withdrawn): A method according to claim 4, in which the ligands are provided as a library of ligands.

12. (canceled).

13. (withdrawn): A method according to claim 1, in which one or both of the first or second polypeptides are transcription factors.

14. (withdrawn): A method according to claim 13, in which the transcription factor is a zinc finger transcription factor.

15. (withdrawn): A method according to claim 1, in which one or both of the first or second polypeptides are provided as a phage display library.

16 through 20. (canceled).

21. (withdrawn): A method of modulating the expression of one or more genes, said method comprising administering a switching system and a ligand selected according to the method of claim 1 to a cell, in which the regulatory sequences of the genes comprise a target nucleic acid.

22. (withdrawn): A method of modulating the expression of one or more nucleotide sequences of interest in a host cell which host cell comprises a nucleic acid sequence capable of directing the expression of a switching system selected according to the method of claim 1 and a target nucleic acid sequence to which the switching system binds in a manner modulatable by a ligand, which method comprises administering said ligand to the cell and wherein the switching system is heterologous to the host cell.

23. (withdrawn): A method according to Claim 21 wherein the host cell is a plant cell.

24. (withdrawn): A method according to Claim 23, in which the plant cell is part of a plant and the target sequence is part of a regulatory sequence to which the nucleotide sequence of interest is operably linked, said regulatory sequence being preferentially active in the male or female organs of the plant.

25. (withdrawn): A non human transgenic organism comprising a target nucleic acid sequence and a nucleic acid sequence capable of directing the expression of a nucleic acid binding molecule which binds to the target nucleic acid in a manner modulatable by a ligand, in which the target nucleic acid sequence and/or nucleic acid sequence are heterologous to the organism.

26. (withdrawn): A transgenic non-human organism according to Claim 25 which is a plant.

27 to 30. (canceled).

31. (withdrawn): A method according to claim 1, in which the ligand is an immunoglobulin molecule, preferably an antibody molecule.

32 to 33. (canceled)

34. (currently amended): A switching system comprising a protein switch comprising: (i) a first component comprising a first polypeptide and (ii) a second component comprising a second polypeptide, in which the first polypeptide binds to the

second polypeptide in a manner modulatable by a ligand, and (iii) a third component comprising the ligand, wherein the first and second polypeptides bind to DNA, and further wherein the first or second polypeptide comprises a non-naturally occurring Cys2-His2 zinc finger protein binding domain.

35. (withdrawn): A method of regulating transcription from a nucleic acid sequence comprising providing a target nucleic acid to which a switching system according to claim 34 binds and binding the switching system to the target nucleic acid, thereby regulating transcription.

36 and 37. (canceled).

38. (withdrawn): A method of modulating the expression of one or more genes, said method comprising administering a switching system according to Claim 34 to a cell, in which the regulatory sequences of the genes comprise a target nucleic acid to which the switching system binds in a manner modulatable by the ligand.

39. (withdrawn): A method of modulating the expression of one or more nucleotide sequences of interest in a host cell which host cell comprises a first nucleic acid sequence capable of directing the expression of the first polypeptide of the switching system according to Claim 34, a second nucleic acid sequence capable of directing the expression of the second polypeptide of the switching system according to Claim 34, and a target nucleic acid sequence to which the at least one of the first or second polypeptides of the switching system binds, which method comprises administering said ligand to the cell.

40. (withdrawn): A method according to Claim 39, in which the at least one DNA-binding polypeptide component of the switching system is heterologous to the host cell.

41. (withdrawn): A method according to Claim 39 wherein the host cell is a plant cell.

42. (withdrawn): A method according to Claim 41, in which the plant cell is part of a plant and the target sequence is part of a regulatory sequence to which the nucleotide sequence of interest is operably linked, said regulatory sequence being preferentially active in the male or female organs of the plant.

43. (withdrawn): A non human transgenic organism comprising a target nucleic acid sequence, a first nucleic acid sequence capable of directing the expression of a nucleic acid binding protein, and a second nucleic acid sequence capable of directing the expression of a second polypeptide which binds to the nucleic acid binding protein in a manner modulatable by a ligand, in which the nucleic acid binding protein binds to the target nucleic acid sequence in a manner modulatable by binding of the second polypeptide.

44. (withdrawn): An organism according to Claim 43, in which any or all of the first nucleic acid sequence, the second nucleic acid sequence, and the target nucleic acid sequence are heterologous to the organism.

45. (withdrawn): A transgenic nonhuman organism according to Claim 43 which is a plant.

46. (withdrawn): A method according to claim 1, in which the first polypeptide component of the complex has a higher affinity for the second polypeptide component of the complex in the presence of the ligand component than in the absence of the ligand component.

47. (withdrawn): A method according to claim 1, in which the first polypeptide component of the complex has a higher affinity for the second polypeptide component of the complex in the absence of the ligand component than in the presence of the ligand component.

48. (new): A switching system comprising a protein switch comprising: (i) a first component comprising a first polypeptide and (ii) a second component comprising a second polypeptide, in which the first polypeptide binds to the second polypeptide in a manner modulatable by a ligand, and (iii) a third component comprising the ligand;

wherein the first and second polypeptides bind to DNA, and further wherein the first or second polypeptide comprises an engineered zinc finger binding domain.

49. (new): A switching system comprising a protein switch comprising: (i) a first component comprising a first polypeptide and (ii) a second component comprising a second polypeptide, in which the first polypeptide binds to the second polypeptide in a manner modulatable by a ligand, and (iii) a third component comprising the ligand, wherein the first and second polypeptides bind to DNA, and further wherein the first or second polypeptide comprises a mutant zinc finger protein.